

285

ISIS 1

ELECTRON AND PROTON DATA

69-009A-04A

ISIS 1

ELECTRON AND PROTON DATA

69-009A-04A

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE
WERE 35 9-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE
ARE FOUR RESTORED TAPES. THE ORIGINAL TAPES WERE CREATED
ON AN IBM 360 COMPUTER. THE DR AND DS TAPES ARE 9-TRACK,
6250 BPI. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING
D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR02540	DS02540	D16936	1-52	02/02/69 - 02/06/69
		D16937	53-111	02/07/69 - 02/10/69
		D16938	112-172	02/15/69 - 03/12/69
		D16939	173-200	02/26/69 - 03/08/69
		D16940	201-264	04/06/69 - 04/08/69
		D16941	265-324	04/08/69 - 04/10/69
		D16942	325-384	04/14/69 - 04/16/69
		D16943	385-444	04/11/69 - 04/14/69
		D16944	445-502	04/16/69 - 04/18/69
		D16945	503-551	04/19/69 - 04/24/69
DR02541	DS02541	D18793	1-43	04/26/69 - 04/29/69
		D18794	44-101	05/09/69 - 05/13/69
		D18795	102-165	05/13/69 - 05/16/69
		D18796	166-223	05/17/69 - 05/19/69
		D18797	224-285	05/20/69 - 05/22/69
		D18798	286-350	05/23/69 - 05/26/69
		D18799	351-409	05/28/69 - 05/31/69
		D18800	410-466	06/01/69 - 06/04/69
		D18801	467-529	06/05/69 - 06/09/69
		D18802	530-591	06/10/69 - 06/14/69
DR02542	DS02542	D18803	1-59	06/15/69 - 06/19/69
		D18804	60-115	06/20/69 - 06/27/69
		D18805	116-175	06/29/69 - 07/06/69
		D18806	176-238	07/07/69 - 07/12/69
		D18807	239-292	07/12/69 - 07/15/69
		D18808	293-345	07/16/69 - 07/19/69
		D18809	346-398	07/26/69 - 08/03/69
		D18810	399-456	08/05/69 - 08/19/69
		D18811	457-518	08/21/69 - 09/11/69
		D18812	519-583	09/19/69 - 10/22/69

69-009A-04A

DR#	DS#	D#	FILES	TIME SPAN
DR02543	DS02543	D28801	1-58	10/31/69 - 11/04/69
		D28802	59-121	11/05/69 - 11/13/69
		D28803	122-179	11/14/69 - 11/21/69
		D28804	180-208	11/22/69 - 12/10/69
		D28805	209-266	12/23/69 - 12/29/69

REQ. AGENT
VJP
CAW

RAND NO.
RC2276
RC3522

ACQ. AGENT
EGS

ISIS 1

ELECTRON AND PROTON DATA

69-009A-04A

This data set catalog consists of 35 ISIS 1 Electron and Proton data on Magnetic tape. The tapes are Multi-filed, nine track, 800 BPI, in IBM/360 Binary format.

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-16936	C-13144	52	2/02/69 - 2/06/69
D-16937	C-13145	59	2/07/69 - 2/10/69
D-16938	C-13146	61	2/15/69 - 3/12/69
D-16939	C-13147	28	2/26/69 - 3/08/69
D-16940	C-13148	60 ✓	4/06/69 - 4/08/69
D-16941	C-13149	60	4/08/69 - 4/10/69
D-16942	C-13150	60	4/14/69 - 4/16/69
D-16943	C-13151	60	4/11/69 - 4/14/69
D-16944	C-13152	58	4/16/69 - 4/18/69
D-16945✓	C-13153✓	49	4/19/69 - 4/24/69
D-18793	C-15078	43✓	4/26/69 - 4/29/69
D-18794	C-15079	58	5/09/69 - 5/13/69
D-18795	C-15080	64	5/13/69 - 5/16/69
D-18796	C-15081	58	5/17/69 - 5/19/69
D-18797	C-15082	62	5/20/69 - 5/22/69
D-18798	C-15083	65	5/23/69 - 5/26/69
D-18799	C-15084	59	5/28/69 - 5/31/69
D-18800	C-15085	57	6/01/69 - 6/04/69
D-18801	C-15086	63	6/05/69 - 6/09/69
D-18802	C-15087	62✓	6/10/69 - 6/14/69

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-18803	C-15088	59	6/15/69 - 6/19/69
D-18804	C-15089	56	6/20/69 - 6/27/69
D-18805	C-15090	60	6/29/69 - 7/06/69
D-18806	C-15091	63	7/07/69 - 7/12/69
D-18807	C-15092	54	7/12/69 - 7/15/69
D-18808	C-15093	53	7/16/69 - 7/19/69
D-18809	C-15094	53	7/26/69 - 8/03/69
D-18810	C-15095	58	8/05/69 - 8/19/69
D-18811	C-15096	62	8/21/69 - 9/11/69
D-18812	C-15097	65	9/19/69 - 10/22/69
D-28801	C-18674	58	10/31/69 - 11/04/69
D-28802	C-18675	63	11/05/69 - 11/13/69
D-28803	C-18676	58	11/14/69 - 11/21/69
D-28804	C-18677	29	11/22/69 - 12/10/69
D-28805	C-18678	58	12/23/69 - 12/29/69



National Research Council
Canada Conseil national de recherches
 Canada

Division of Physics

Division de physique

File Reference

March 11, 1975

Dr. E.G. Stassinopoulos,
Fields and Particles Branch,
Code 601,
National Space Science Data Centre,
NASA Goddard Space Flight-Centre,
Greenbelt, Maryland 20770,
U.S.A.

Dear Dr. Stassinopoulos:

We have sent, under separate cover, twenty
ISIS-1 data tapes, labelled "EXP4011A" to "EXP4030A".
Lists of the contents of these tapes are enclosed.

A detailed list of the variables included
in each one minute record of each pass is attached.
If you have any further questions or problems about
the data, please do not hesitate to let me know.

With best wishes

Yours sincerely,

Margaret D. Wilson.

Margaret D. Wilson.

Encl.

Ottawa, Canada
K1A 0R6
Telex 053-4322

Rec'd 8 17. III '75

ISIS-1 OUTPUT TAPE (NEW VERSION)

Each one minute record contains 11626 bytes and is written (unformatted) as follows:-

Section 1: Pass identification 8 words integer*4

WORD

1	Pass number
2	Year
3	Day
4	Hour
5	Minute } at start of minute
6	Second } at start of minute
7	Number of first frame in minute
8	Number of good magnetometer points in minute

Section 2: Once/minute housekeeping data 6 words real*4

WORD

1	Spin period (seconds)
2	Temperature at start of minute
3	Local solar time at start of minute
4	Local magnetic time at start of minute
5	Magnetic declination at start of pass
6	Angle between spin axis and field at start of minute

Section 3: Once/6-second orbit data 80 words real*4

WORDS

1-10	10 values of geographic latitude
11-20	10 values of geographic longitude
21-30	10 values of geographic altitude
31-40	10 values of geomagnetic latitude
41-50	10 values of geomagnetic longitude
51-60	10 values of invariant latitude
61-70	10 values of L
71-80	10 values of B

Section 4: 225 values/minute electron counter and pitch angle data 1350 words real*4

WORDS

1-225	225 values of counter G1 (>42 kev axial)
226-450	225 values of counter G2 (>23 kev axial)
451-675	225 values of counter G3 (>36 kev radial)
676-900	225 values of counter G6 (>20 kev radial)
901-1125	225 values of counter S3 (log energy > 10 kev)
1126-1350	225 values of pitch angle of G6 (degrees)

Section 5: 225 values/minute electron and proton counter
data 2925 words integer*2

WORDS

1-225	225 values of counter S50 (50 kev, alternate values)
226-450	225 values of counter S80 (80 kev, alternate values)
451-675	225 values of counter G4L (80 kev, alternate values)
676-900	225 values of counter G4H (110 kev, alternate values)
901-1125	225 values of counter G5L (>140 kev, radial)
1126-1350	225 values of counter G5H (>200 kev, radial)
1351-1575	225 values of counter D1 (protons $0.15 < E_p < 3.8$ mev)
1576-1800	225 values of counter D2 (protons $0.6 < E_p < 12$ mev)
1801-2025	225 values of counter D3 (protons $3.4 < E_p < 30$ mev)
2026-2250	225 values of counter D4H (protons $12.2 < E_p < 20$ mev)
2251-2475	225 values of counter D4L (protons $12.5 < E_p < 45$ mev)
2476-2700	225 values of counter DB2 (protons >45 mev)
2701-2925	225 values of counter DB1 (protons $45 < E_p < 55$ mev)

National Research Council Conseil national de recherches
Canada Canada

* Division of Physics

File Référence
August 13, 1974

Dr. E.G. Stassinopoulos
Fields and Particles Branch
Code 601
National Space Science Data Centre
NASA. Goddard Space Flight Centre
Greenbelt, Maryland 20770
U.S.A.

Dear Dr. Stassinopoulos:

We are sending, under separate cover, the first ten ISIS-1 data tapes, labelled "EXP4001A" to "EXP4010A". A list of the contents of these tapes is enclosed.

The tapes are 9-track, 800 BPI and were written unformatted, with "RECFM=V" and maximum block size 11700 characters. The first 8 characters of each record specify the block and record lengths. Each record contains one minute's data and, as you requested, these consist of:

- a) Pass identification 8 words (Integer ~~x 4~~)
- b) Once/minute housekeeping data 6 words (Real ~~x 4~~)
- c) Once/6-second orbit data 80 words (Real ~~x 4~~)
- d) 225 values/minute counter and pitch angle data
1350 words (Real ~~x 4~~)
- e) 225 values/minute counter data 2925 words
(integer ~~x 2~~)

An end-of-file mark follows the last record of each pass.

In any record where data are missing or incomplete (e.g. at the end of a pass) the orbit data values are set to zero, the "real ~~x 4~~" counter data are set to -1.0E-14 and the "integer ~~x 2~~" counter data to -32768. Errors in the data in section b (the local magnetic time at the start of the minute and the magnetic declination at the start of the pass) and in section c (the L and B values) which occurred in early passes and were noted on the original descriptions, have been corrected.

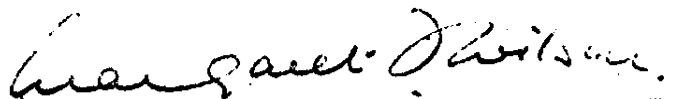
I trust that these tapes will meet with your requirements. Should there be any problems, please do not hesitate to let me know. We are in the process of preparing the remainder of the ISIS-1 data for you but will await your comments on this first batch of tapes before sending any more.

In answer to your queries about Alouette II data, the direction of the interplanetary field was obtained from a report entitled "Interplanetary Sector Structure in the rising portion of the sunspot cycle" by John W. Wilcox and David S. Colburn, published in February 1969 by the Space Sciences Laboratory, University of California, Berkeley, report number Series 9, Issue 68. These field directions were included in the boundary tape data because they were required for one particular study which we did some time ago. The time resolution of the counting rates for Alouette II was one second.

I hope you had a pleasant holiday.

With best wishes,

Yours sincerely,



Margaret D. Wilson

D-16936

CONTENTS OF ISIS-1 REDUCED TAPE NO. EXP4001A

NATIONAL RESEARCH COUNCIL OF CANADA
TAPE COPIED ON JUN. 12 1974 PAGE 1

FILE	PASS	YEAR	DAY	START TIME			STOP TIME			INVARIANT LATITUDE MAX.	NO. OF RECORDS
				HH	MM	SS	HH	MM	SS		
1	31	69	33	0	43	5	0	58	47	0.2	84-2
2	31	69	33	0	57	12	1	6	0	82.8	84-3
3	32	69	33	0	29	3	13	53	69.1	74-0	15
4	32	69	33	3	13	11	3	20	11	76.2	76-2
5	35	69	33	9	33	11	9	42	11	78.0	48-7
6	37	69	33	13	25	22	13	37	52	50.0	71.3
7	37	69	33	14	43	25	14	55	1	67.0	49.3
8	39	69	33	17	46	32	17	56	32	56.4	76.0
9	41	69	33	23	20	12	23	39	12	78.5	49-4
10	54	69	35	2	5	15	2	23	56	68.0	55-4
11	57	69	35	8	20	46	8	40	16	50.1	74-0
12	58	69	35	10	31	12	10	47	42	56.8	73-6
13	59	69	35	12	32	34	12	54	34	50.0	76-8
14	60	69	35	14	37	49	14	53	49	50.1	78-8
15	60	69	35	16	1	14	16	9	44	61-3	49-4
16	61	69	35	16	47	16	17	2	10	50-2	78-4
17	62	69	35	18	58	35	19	26	11	50.0	58.4
18	43	69	34	2	33	15	2	52	15	69.5	53-4
19	44	69	34	4	42	22	4	55	22	71-3	70-9
20	46	69	34	8	47	48	9	5	48	50.1	78-2
21	47	69	34	11	45	28	11	50	28	50.1	66-4
22	49	69	34	15	4	44	15	22	44	50.0	82-9
23	50	69	34	17	14	52	17	29	52	50-1	78-4
24	51	69	34	19	36	13	19	52	32	68-3	63-0
25	51	69	34	21	12	25	21	39	25	37-7	52-8
26	52	69	34	21	37	9	21	52	9	49.0	80-9
27	52	69	34	21	52	27	21	54	27	81-5	82-8
28	53	69	34	23	52	5	0	4	5	57.9	84-2
29	65	69	36	1	38	10	1	49	10	68.9	78-7
30	65	69	36	1	48	50	1	57	50	79.0	49-4
31	66	69	36	3	59	12	4	5	12	75-4	54-0
32	67	69	36	5	59	24	6	8	24	79.7	67-8
33	67	69	36	6	6	31	6	13	19	74.0	49.5
34	71	69	36	14	11	2	14	27	2	50-1	79-5
35	73	69	36	18	30	53	18	48	53	50-0	84-3
36	73	69	36	18	48	14	18	59	14	84-3	84-3
37	74	69	36	21	59	15	22	16	15	74.3	49-8
38	66	69	36	4	4	1	4	10	1	58.4	35-6
39	67	69	36	6	31	6	15	37	5	66-4	66-4
40	76	69	37	1	10	23	1	26	23	68-1	61-9
41	76	69	37	2	30	11	2	56	11	58.8	33-2
42	77	69	37	3	34	12	4	6	12	66-9	66-9
43	78	69	37	5	29	17	5	36	17	73-5	82-2
44	79	69	37	7	41	5	7	49	5	80-7	62-9
45	79	69	37	8	43	5	9	37	5	66-4	66-4
46	81	69	37	11	33	8	11	49	8	41-6	68-7
47	81	69	37	12	25	23	12	38	23	30-3	74-3
48	82	69	37	15	26	6	16	8	6	39-8	81-1
49	84	69	37	18	7	14	18	22	14	57-0	84-1
50	84	69	37	19	49	14	20	39	14	38-0	83-1

CONTENTS OF ISIS-1 REDUCED TAPE NO. EXP4001A

PAGE 2
NATIONAL RESEARCH COUNCIL OF CANADA
TAPE COPIED ON JUN. 12 1974

FILE	PASS	YEAR	DAY	START TIME			STOP TIME			INVARIANT LATITUDE		NO. OF RECORDS
				HH	MM	SS	HH	MM	SS	START	STOP	
51	85	69	37	21	58	20	22	14	20	39.4	17	
52	86	69	37	23	38	4	23	54	4	82.7	17	

1 2 3 4 5 6

```

- STEP 02 - RETURN CODE = 0000      10. IN SECS. DISK= 1.0-37+DRUM= .56-TAPE= .19 MINS=(CPU=.01-HR=.00+CELL=.00+TMR=.18
)
3   XXGO    EXEC PGM=*.LINK-SYSLMOD,COND=(4,LT),REGION=70K
4   XXXFT05F001 DD DDNAME=DATA5
5   XXXFT06F001 DD SYSDUT=DCB=SYOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265)
6   IEF6531 SUBSTITUTION JCL - SYSDUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265)
7   ) ) XXXF107F001 DD SYSDUT=B,DCB=(RECFM=FB,BLKSIZE=720,LRECL=80)
8   ) ) XXXSYSPRINT DD SYSDUT=B,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=80)
9   ) ) IEF6531 SUBSTITUTION JCL - SYSDUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265)
10  ) ) SPACE=(CVN=10,11,UNIT=DISK,3)
11  ) ) //GO.FT0BF001 DD UNIT=9 TRACK=001 DISP=(OLD+KEEP),LABEL=(01.BLP.,IN).
12  ) ) DCB=(BLKSIZE=32000,RECFM=U,DEN=2).
13  ) )
14  ) //GO.DATAS DD *
15  )
16  ) IEF236I ALLOC. FOR YZJRJJP1 GO
17  ) IEF237I 232 ALLOCATED TO F105E001
18  ) IEF237I 231 ALLOCATED TO F106F001
19  ) IEF237I 331 ALLOCATED TO F107F001
20  ) IEF237I 331 ALLOCATED TO F108F001
21  ) IEF237I 232 ALLOCATED TO F109F001
22  ) IEF237I 231 ALLOCATED TO F10AF001
23  ) IEF237I 331 ALLOCATED TO F10BF001
24  ) IEF237I 005 ALLOCATED TO F10BF001
25  )
26  ) //GO.DATAS DD *
27  )
28  ) IEF237I 232 ALLOCATED TO F105E001
29  ) IEF237I 331 ALLOCATED TO F106F001
30  ) IEF237I 331 ALLOCATED TO F107F001
31  ) IEF237I 232 ALLOCATED TO F108F001
32  ) IEF237I 231 ALLOCATED TO F109F001
33  ) IEF237I 331 ALLOCATED TO F10AF001
34  ) IEF237I 005 ALLOCATED TO F10BF001
35  )

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STEP TIME = 1.0-37+DRUM= .56-TAPE= .19 MINS=(CPU=.01-HR=.00+CELL=.00+TMR=.18
)
1  ) 615/69-61803
2  )
3  ) RECORD 1 OF FILE 1
4  ) LENGTH = 11634 BYTES
5  ) C1 [C1
6  ) 0000000A6 00000002 00000035 00000014 0000000E 0000000E
7  ) 41045E3F 4079C367 61971232 C2135691 C214C1C8
8  ) C2152F7 42965B 42160A71 429652FA 429648D
9  ) C2151ADA 42964499 429640B0 42963D10 42963D10
10 ) C2152F7 42964499 42964499 4296368A 4296368A
11 ) C2152F7 42964499 42964499 42963980 4348735C
12 ) C2152F7 42964499 42964499 42963D00 4348735C
13 ) C2152F7 42964499 42964499 42963D10 4348735C
14 ) C2152F7 42964499 42964499 42963D10 4348735C
15 ) C2152F7 42964499 42964499 42963D10 4348735C
16 ) C2152F7 42964499 42964499 42963D10 4348735C
17 ) C2152F7 42964499 42964499 42963D10 4348735C
18 ) C2152F7 42964499 42964499 42963D10 4348735C
19 ) C2152F7 42964499 42964499 42963D10 4348735C
20 ) C2152F7 42964499 42964499 42963D10 4348735C
21 ) C2152F7 42964499 42964499 42963D10 4348735C
22 ) C2152F7 42964499 42964499 42963D10 4348735C
23 ) C2152F7 42964499 42964499 42963D10 4348735C
24 ) C2152F7 42964499 42964499 42963D10 4348735C
25 ) C2152F7 42964499 42964499 42963D10 4348735C
26 ) C2152F7 42964499 42964499 42963D10 4348735C
27 ) C2152F7 42964499 42964499 42963D10 4348735C
28 ) C2152F7 42964499 42964499 42963D10 4348735C
29 ) C2152F7 42964499 42964499 42963D10 4348735C
30 ) C2152F7 42964499 42964499 42963D10 4348735C
31 ) C2152F7 42964499 42964499 42963D10 4348735C
32 ) C2152F7 42964499 42964499 42963D10 4348735C
33 ) C2152F7 42964499 42964499 42963D10 4348735C
34 ) C2152F7 42964499 42964499 42963D10 4348735C
35 ) C2152F7 42964499 42964499 42963D10 4348735C
36 ) C2152F7 42964499 42964499 42963D10 4348735C
37 ) C2152F7 42964499 42964499 42963D10 4348735C
38 ) C2152F7 42964499 42964499 42963D10 4348735C
39 ) C2152F7 42964499 42964499 42963D10 4348735C
40 ) C2152F7 42964499 42964499 42963D10 4348735C
41 ) C2152F7 42964499 42964499 42963D10 4348735C
42 ) C2152F7 42964499 42964499 42963D10 4348735C
43 ) C2152F7 42964499 42964499 42963D10 4348735C
44 ) C2152F7 42964499 42964499 42963D10 4348735C
45 ) C2152F7 42964499 42964499 42963D10 4348735C
46 ) C2152F7 42964499 42964499 42963D10 4348735C
47 ) C2152F7 42964499 42964499 42963D10 4348735C
48 ) C2152F7 42964499 42964499 42963D10 4348735C
49 ) C2152F7 42964499 42964499 42963D10 4348735C
50 ) C2152F7 42964499 42964499 42963D10 4348735C
51 ) C2152F7 42964499 42964499 42963D10 4348735C
52 ) C2152F7 42964499 42964499 42963D10 4348735C
53 ) C2152F7 42964499 42964499 42963D10 4348735C
54 ) C2152F7 42964499 42964499 42963D10 4348735C
55 ) C2152F7 42964499 42964499 42963D10 4348735C
56 ) C2152F7 42964499 42964499 42963D10 4348735C
57 ) C2152F7 42964499 42964499 42963D10 4348735C
58 ) C2152F7 42964499 42964499 42963D10 4348735C
59 ) C2152F7 42964499 42964499 42963D10 4348735C
60 ) C2152F7 42964499 42964499 42963D10 4348735C
61 ) C2152F7 42964499 42964499 42963D10 4348735C
62 ) C2152F7 42964499 42964499 42963D10 4348735C

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